

1/16

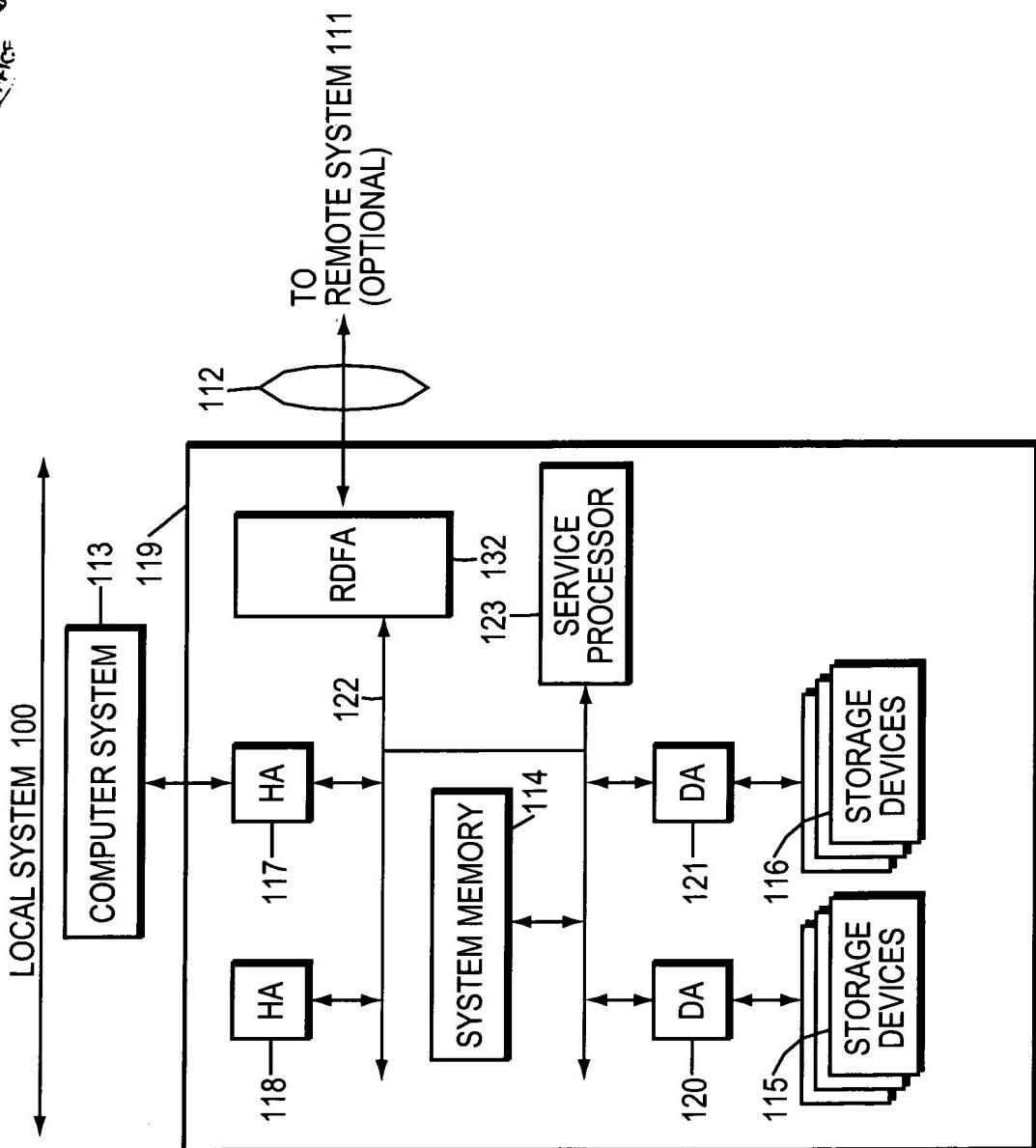


FIG. 1

2/16

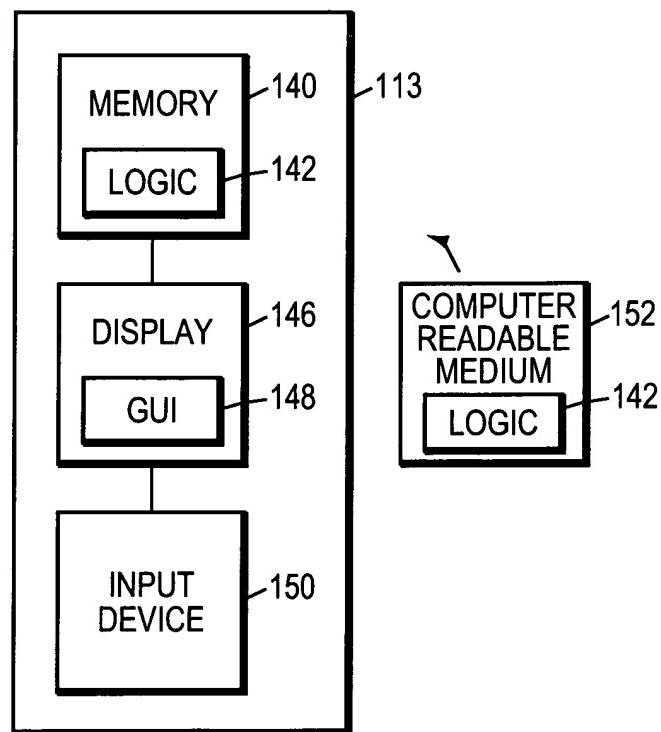


FIG. 2

3/16

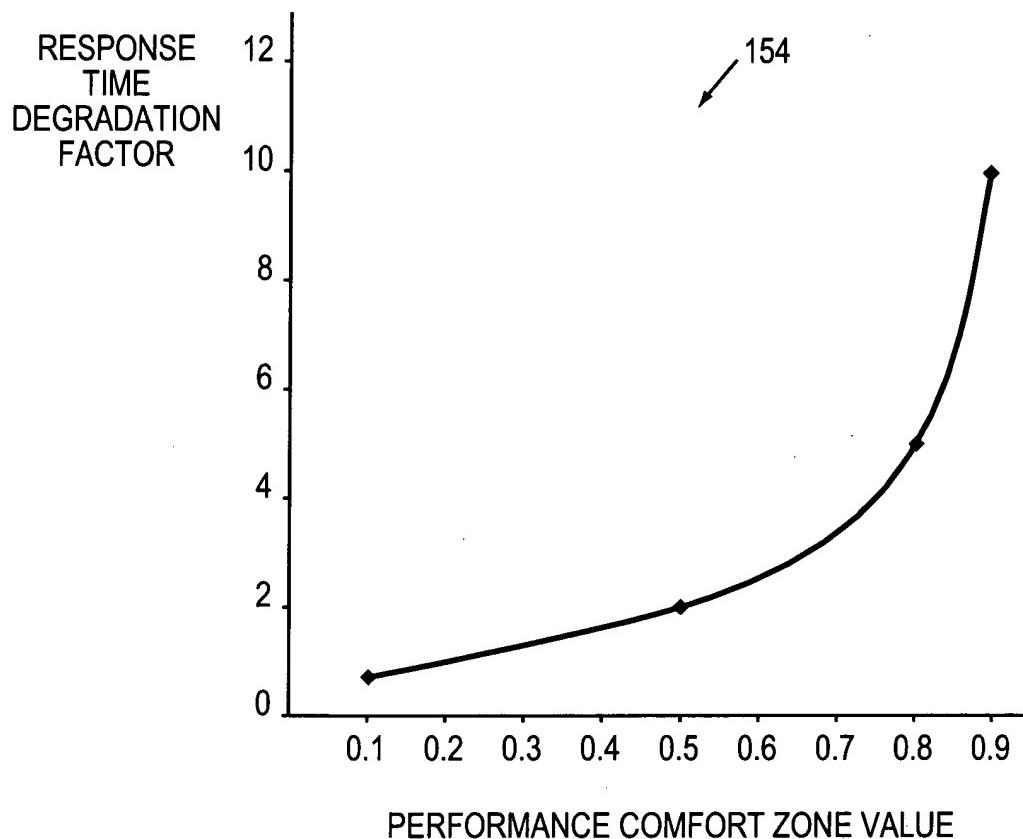


FIG. 3

4/16

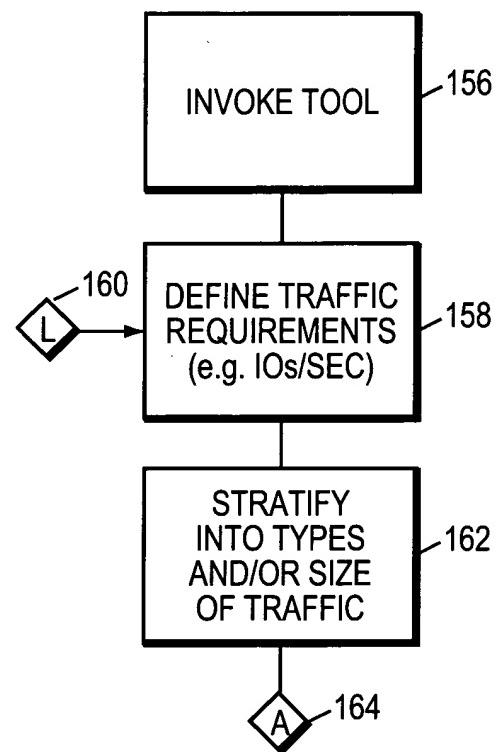


FIG. 4

5/16

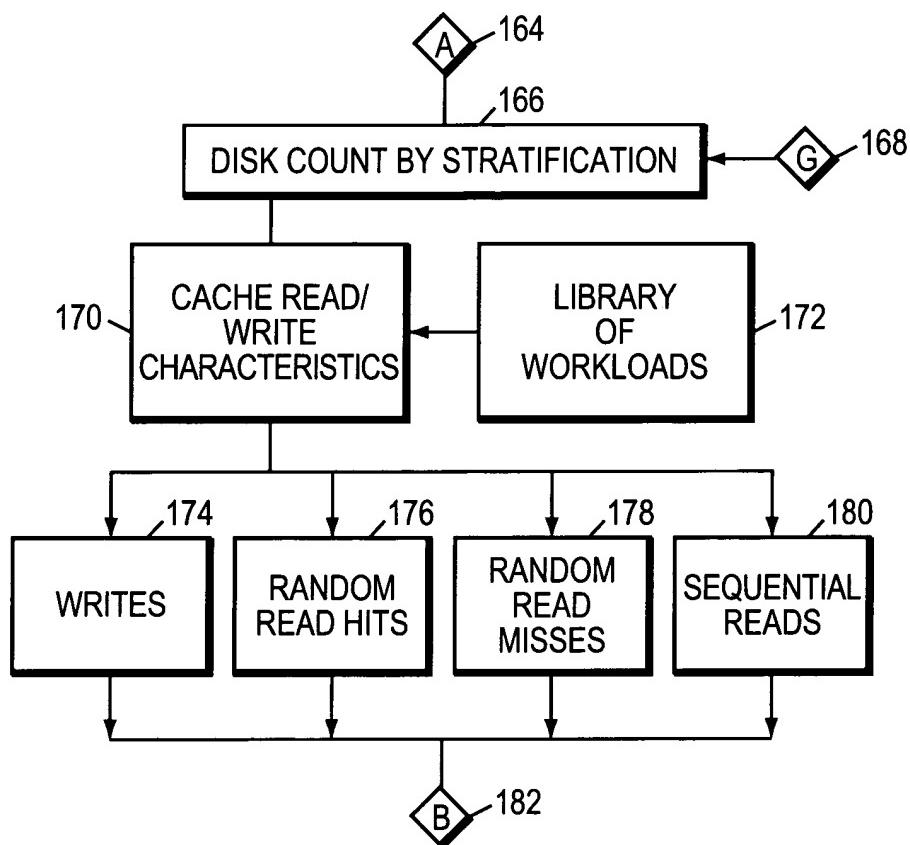


FIG. 5

+

6/16

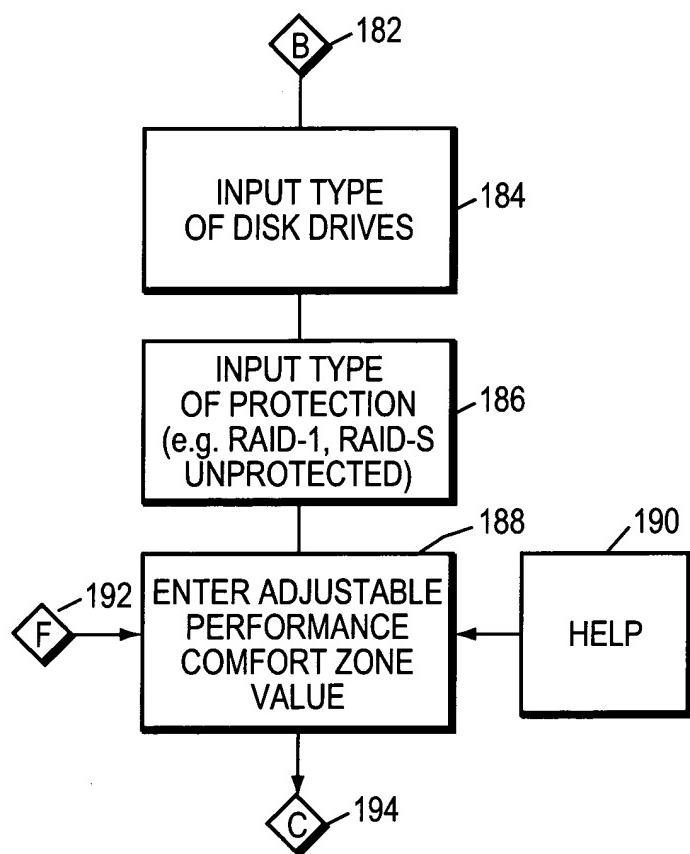


FIG. 6

+

7/16

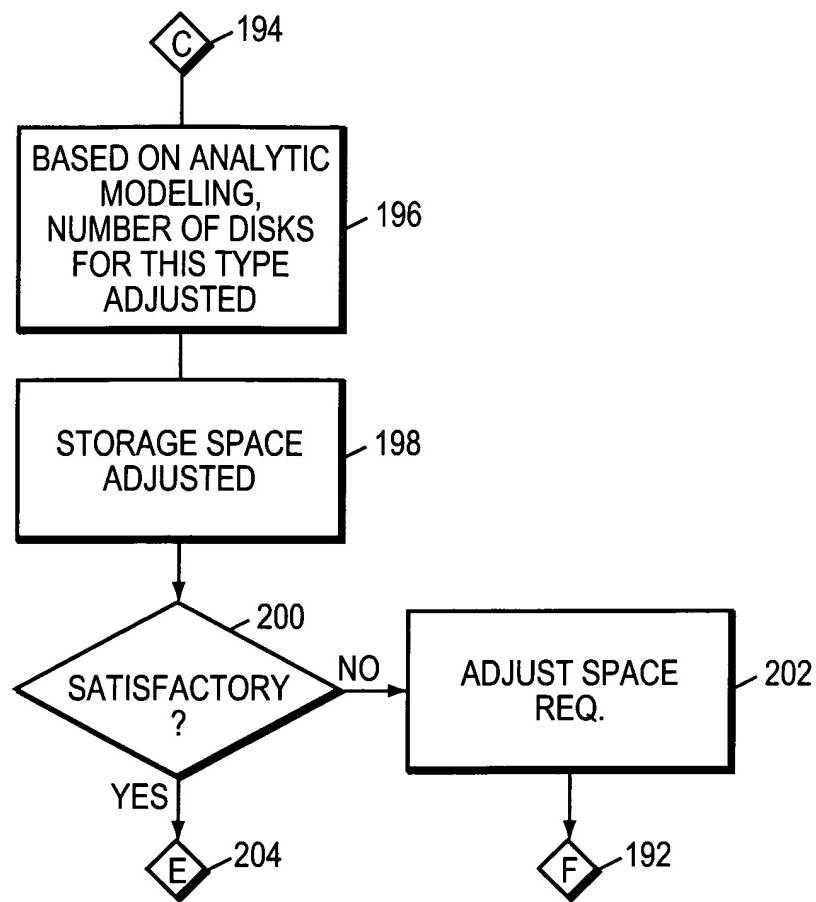


FIG. 7

+

8/16

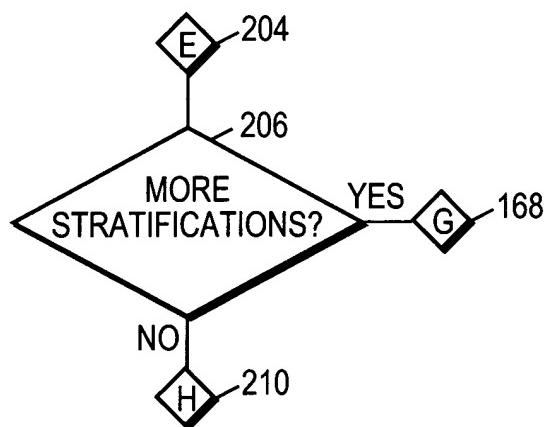


FIG. 8

+

+

9/16

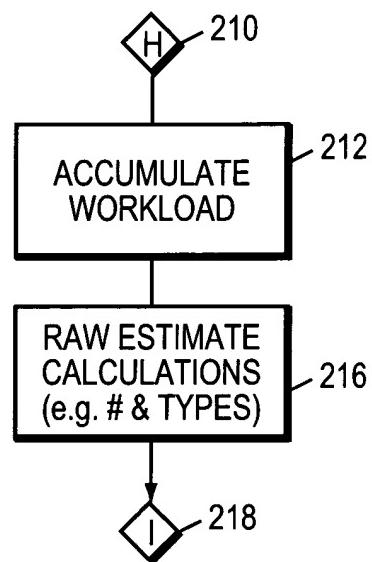


FIG. 9

+

10/16

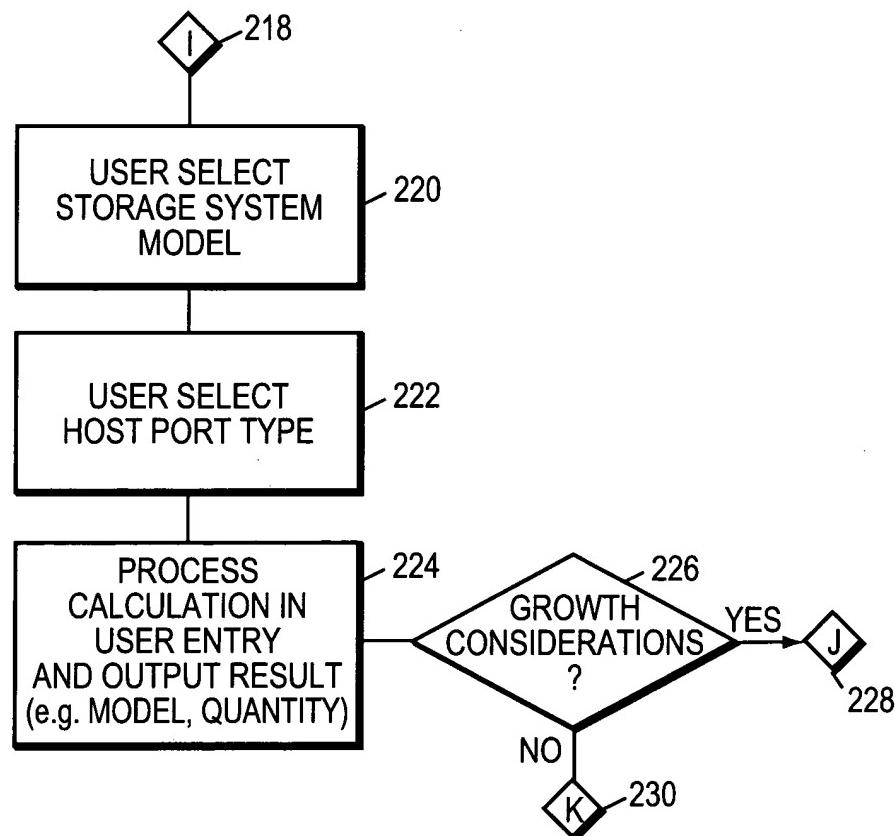


FIG. 10

11/16

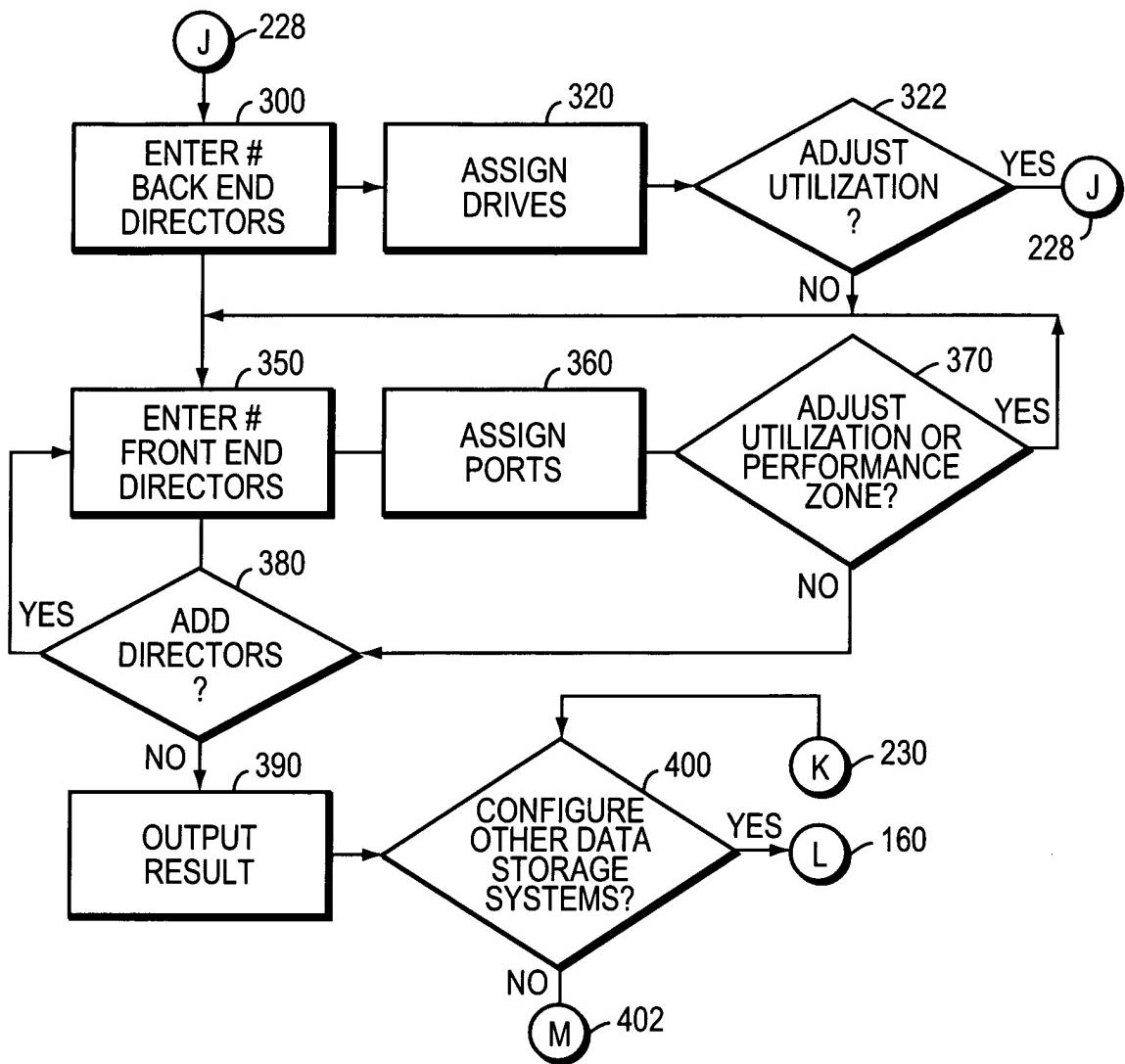


FIG. 11

12/16

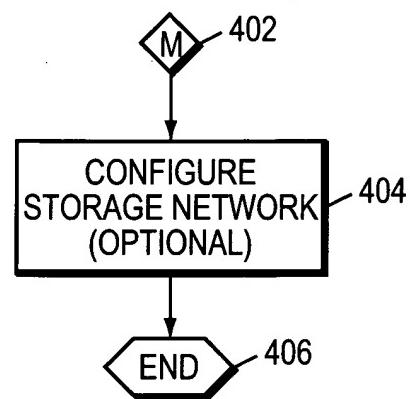


FIG. 12



Configuration Tool																																									
<input type="checkbox"/> File <input type="checkbox"/> Find <input type="checkbox"/> View <input type="checkbox"/> Help	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <input type="button" value="X"/> <input type="button" value="Minimize"/> <input type="button" value="Maximize"/> <input type="button" value="Close"/> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Disks Counting Connection Storage Area Network </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Application ID <input type="text"/> <input checked="" type="radio"/> Active Data <input type="radio"/> Indices <input type="radio"/> Inactive Data <input type="radio"/> Logs </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Workload Characterization I/O/sec <input type="text" value="12345"/> 0% <input type="text" value="100%"/> % Rate/sec <input type="text" value="2345.6"/> Random Read Hits <input type="text" value="19"/> <input type="text" value="19"/> <input type="text" value="19"/> Avg size <input type="text" value="4"/> Random Read Misses <input type="text" value="19"/> <input type="text" value="19"/> <input type="text" value="19"/> MB/sec <input type="text" value="9.16"/> Sequential Reads <input type="text" value="39"/> <input type="text" value="39"/> <input type="text" value="39"/> <input type="text" value="16"/> Writes <input type="text" value="23"/> <input type="text" value="23"/> <input type="text" value="23"/> <input type="text" value="32"/> 100 <input type="text" value="12345.2"/> 522 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Protection Performance Zone <input type="text" value="0.5"/> Min. TB Needed <input type="text" value="?"/> <input type="text" value="10"/> <input type="text" value="10"/> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Physical Partitions per Disks <input type="text"/> <input checked="" type="radio"/> Raid-1 <input type="radio"/> Raid-S <input type="radio"/> Raid-0 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Usable Space in TB <input type="text" value="4.51"/> Number of Disks for this entry <input type="text" value="189"/> <input type="button" value="Clear All"/> <input type="button" value="Include"/> <input type="button" value="Clear Last"/> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Summary <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Workload index</th> <th style="width: 10%;">Application ID</th> <th style="width: 10%;">Data type</th> <th style="width: 10%;">Number of devices</th> <th style="width: 10%;">FE I/Osec</th> <th style="width: 10%;">FE MB/sec</th> <th style="width: 10%;">BE I/Osec</th> <th style="width: 10%;">BE MB/sec</th> <th style="width: 10%;">Remote IOs/sec</th> <th style="width: 10%;">Remote IOs/sec</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td>24880.4</td> <td>944.3</td> <td>25878</td> <td>503.44</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>Active date</td> <td></td> <td>12345.2</td> <td>172.15</td> <td>12939</td> <td>251.72</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Active date</td> <td></td> <td>12345.2</td> <td>172.15</td> <td>12939</td> <td>251.72</td> <td></td> <td></td> </tr> </tbody> </table> </div>	Workload index	Application ID	Data type	Number of devices	FE I/Osec	FE MB/sec	BE I/Osec	BE MB/sec	Remote IOs/sec	Remote IOs/sec	1				24880.4	944.3	25878	503.44			2		Active date		12345.2	172.15	12939	251.72					Active date		12345.2	172.15	12939	251.72		
Workload index	Application ID	Data type	Number of devices	FE I/Osec	FE MB/sec	BE I/Osec	BE MB/sec	Remote IOs/sec	Remote IOs/sec																																
1				24880.4	944.3	25878	503.44																																		
2		Active date		12345.2	172.15	12939	251.72																																		
		Active date		12345.2	172.15	12939	251.72																																		

FIG. 13

14/16

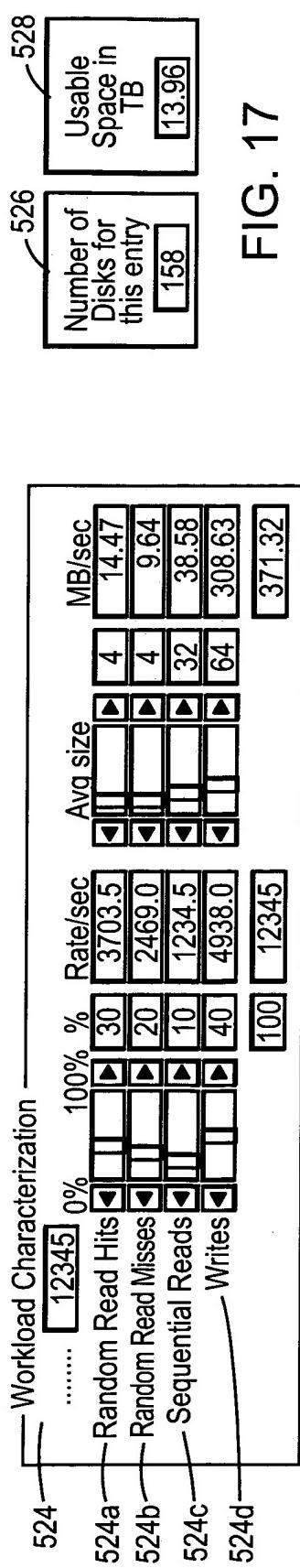


FIG. 17

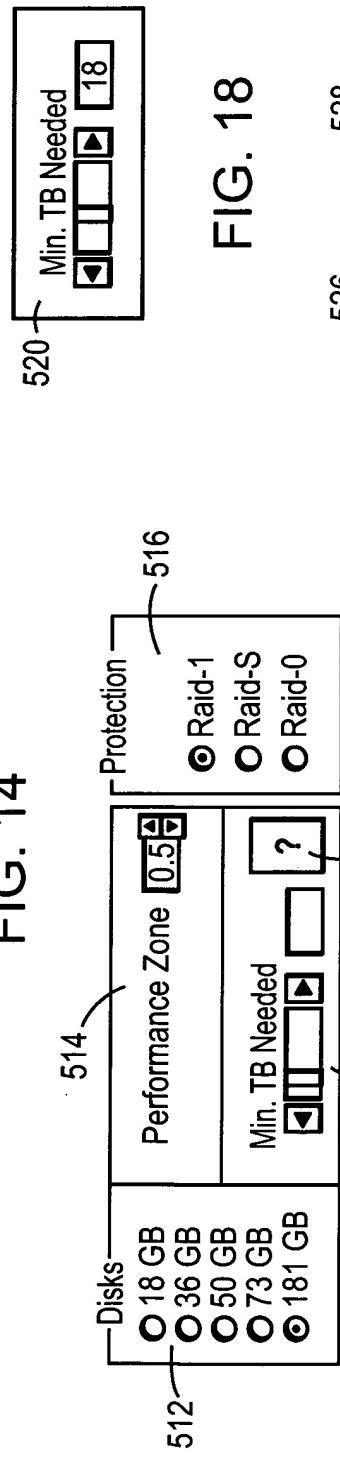


FIG. 15

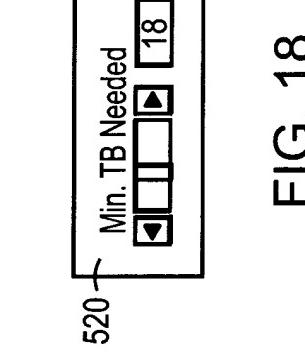


FIG. 18

FIG. 19

15/16

+

545

Performance Zone 544

Component Performance Zone (Service Time = 1)

542

540

Changing the Performance Comfort Zone value implies that the user would like the component to be run at a higher utilization level. The higher the utilization level, the higher the possibility of contention for the device and thus the higher the response times. Increasing the Performance Zone value will decrease the number of components in the configuration (thus reducing costs). Decreasing the value will increase the number of components (thus increasing costs).

548

550

Close

546

Min. TB Needed

Graph showing Response Time Degradation Factor (Relative to Service Time) versus Performance Zone Value:

Performance Zone Value	Response Time Degradation Factor (Relative to Service Time)
0.1	10.0
0.2	8.0
0.3	7.0
0.4	6.0
0.5	5.0
0.6	4.0
0.7	3.0
0.8	2.0
0.9	1.5
1.0	1.0

FIG. 16

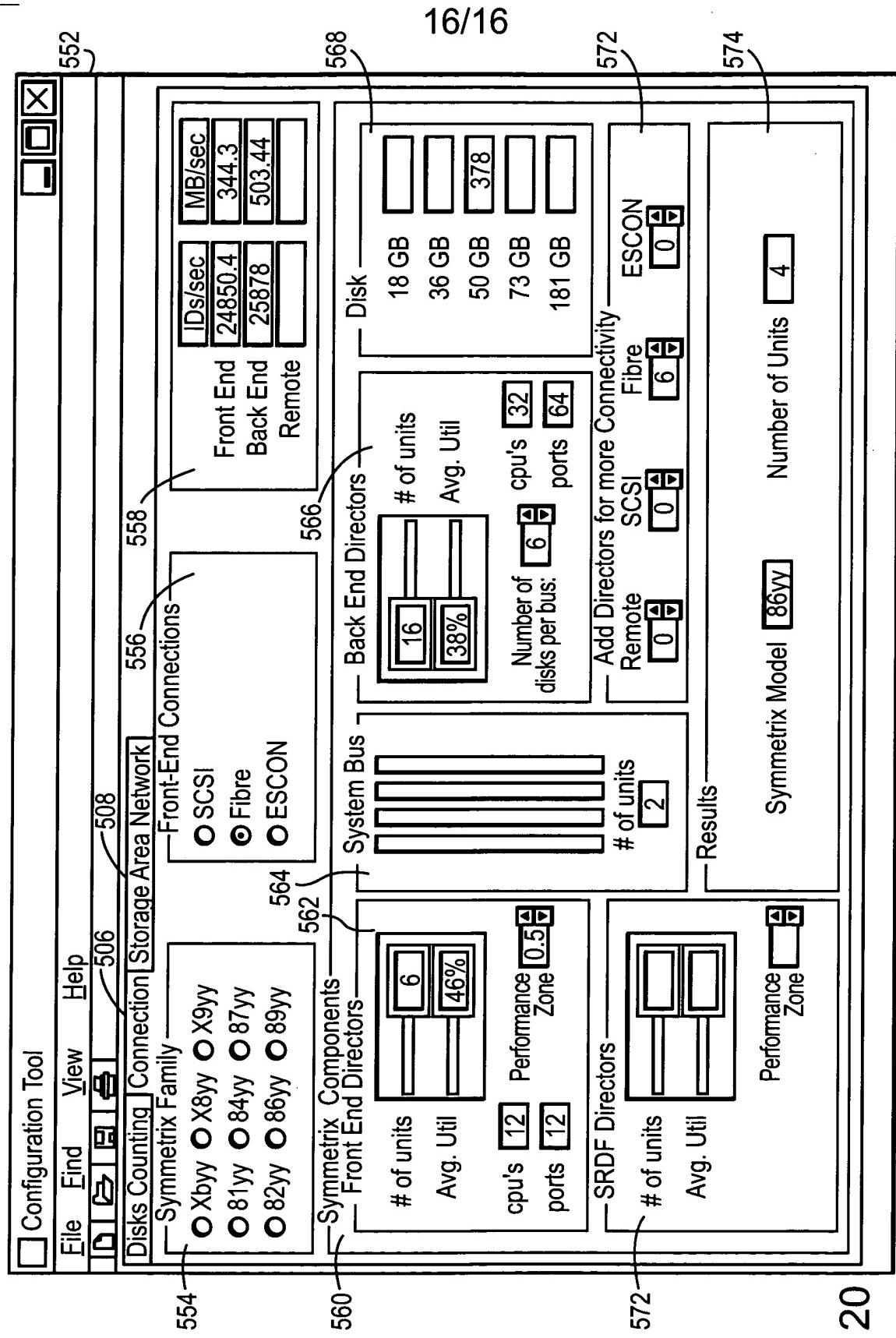


FIG. 20